(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 14 October 2004 (14.10.2004)

PCT

(10) International Publication Number WO 2004/088911 A3

(51) International Patent Classification⁷: 29/06, 12/22, 1/24

H04L 5/14,

(21) International Application Number:

PCT/GB2004/001427

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0307622.1

2 April 2003 (02.04.2003) GB

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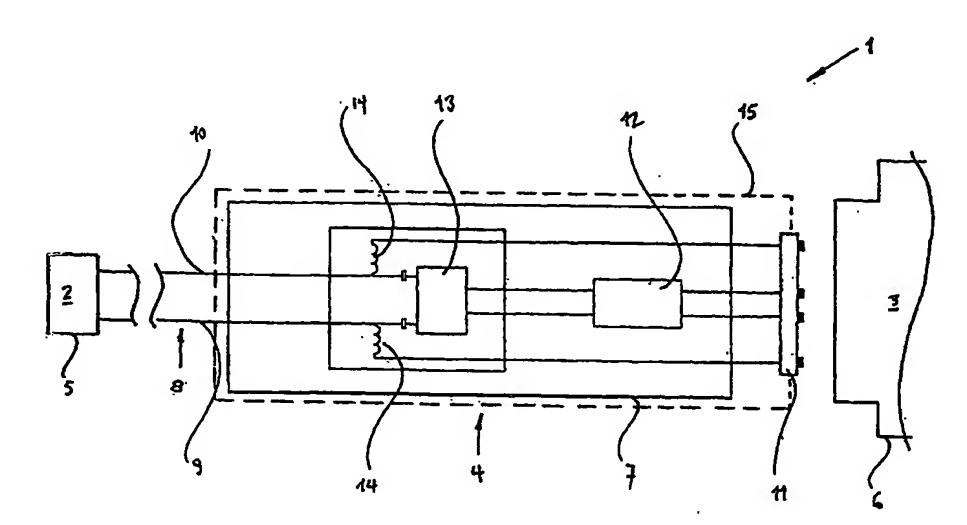
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: COMMUNICATION SYSTEM, CONVERTER FOR USE THEREIN AND METHOD OF SIGNALLING



(57) Abstract: A communication system comprises first and second devices (2,3) having respective housings (5,6); a data transmission line (8) for transmitting data between the devices in a reflective signalling format; and conversion means (4) connectable to the line externally of the housings (5,6) for converting data between a reflective signalling format and another format. A method of signalling between first and second devices (2,3) linked by a transmission line (8) and of sensing a security violation of the line (8) comprises the steps of (a) transmitting a signal from the first device to the second device, reflecting the signal back to the first device in a manner corresponding to a first bit sequence, receiving the signal thus reflected at the first device, and comparing this signal with the transmitted signal to determine whether there has been a security violation of the line and to extract the first bit sequence.

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GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

h tional Application No PCT/GB2004/001427

IDC 3	SIFICATION OF SUBJECT MATTER	11.10.100			
IPC 7	H04L5/14 H04L29/06 H04	L12/22 H04L1/24			
According	to International Patent Classification (IPC) or to both national	classification and IPC			
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	ition searched other than minimum documentation to the exte				
	tata base consulted during the international search (name of ternal, PAJ, WPI Data, INSPEC,)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.		
X	LENTZEN W: "Modems im Einsatz 1992, DATACOM-VERLAG, BERGH , XP002293938 Chapters 2.5.2, 4.2.1, and 5.	HEIM, GERMANY	1-11		
X	WO 99/35780 A (WOOD JOHN) 15 July 1999 (1999-07-15) cited in the application page 9, line 31 - page 10, li page 19, line 33 - line 35 page 23, line 28 - page 24, l page 28, line 9 - line 15 figures 3,4,7		1-11		
		-/ v			
X Furthe	er documents are listed in the continuation of box C.	X Patent family members are listed in	annex.		
A" document conside E" earlier do filling da' L" document which is citation of document other materials	which may throw doubts on priority claim(s) or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone reterring to an oral disclosure, use, exhibition or cannot be considered novel or cann		ne application but ony underlying the simed invention se considered to siment is taken alone simed invention similar step when the sother such docu- it a person skilled		
ate of the ac	ctual completion of the international search	Date of mailing of the international search	<u></u>		
26 August 2004		2 1. 12. 04			
ame and ma	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Baltersee, J			

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PCT/GB2004/001427

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	ition) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GRECAS C F ET AL: "Uninterrupted data transmission over GSM and application to health services" MELECON 2000. 10TH. MEDITERRANEAN ELECTROTECHNICAL CONFERENCE., vol. 1, 29 May 2000 (2000-05-29), pages 436-440, XP010518911 NEW YORK, USA page 436, right-hand column	7-10
Α	US 3 119 063 A (PERKINS JR J CARTER ET AL) 21 January 1964 (1964-01-21) claim 1	1-11
Α	US 3 205 312 A (PERKINS JR J CARTER ET AL) 7 September 1965 (1965-09-07) claim 1	1-11
A	WO 02/056457 A (UNIV CALIFORNIA) 18 July 2002 (2002-07-18) page 1, line 10 - line 12 page 6, line 10 - page 7, line 11	7-10

emational application No. PCT/GB2004/001427

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-11
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11

Converter that is located externally of two communicating pieces of equipment and corresponding communication system

2. claims: 12-22

Method of sensing a security violation of a transmission line

INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No
PCT/GB2004/001427

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